IN THE UNITED STATES PATENT AND TRADEMARK OFFICE: BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

APPLICANTS: Li et al.

APPL. NO.: 09/664,226 ART UNIT: 3696

FILING DATE: September 18, 2000 EXAMINER: Colbert, Ella

TITLE: Auction Management

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AMENDED APPEAL BRIEF

In response to the Notification of Non-Compliant Appeal Brief mailed February 11, 2009, we respectfully submit this Amended Appeal Brief.

Through the enclosed Petition, Applicants respectfully request a one-month extension of the date for reply to April 11, 2009. Please charge our Deposit Account No. 07-1700 in the amount of \$65.00 to cover the fee set forth in 37 C.F.R. § 1.17(a)(1). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed, or which should have been filed herewith to our Deposit Account No. 07-1700, under Order No. EMT-001.

REAL PARTY IN INTEREST

The real party in interest is the owner of the present application, Emptoris, Inc.

RELATED APPEALS AND INTERFERENCES

No other appeals or interferences directly affect or will be directly affected by the Board's decision in the present appeal.

STATUS OF CLAIMS

The application as filed contained 53 claims, and in an amendment filed on March 22, 2004, we cancelled claim 53. Claims 1–52 remain pending, have been rejected, and are the subject of this appeal.

STATUS OF AMENDMENTS

No amendments have been filed subsequent to the Office Action mailed on September 12, 2005.

SUMMARY OF CLAIMED SUBJECT MATTER

A buyer opens a conventional auction by distributing a "request-for-quotation" ("RFQ") to prospective suppliers. The RFQ contains a list of the items the buyer would like to purchase. In some cases, the RFQ contains additional information pertinent to the proposed transaction, such as minimum or maximum quantities, delivery dates, or standards of quality. In response to the RFQ, prospective suppliers submit bids. The buyer then chooses which of those suppliers are

to be awarded the bid. The optimal combination of suppliers, together with the list of items to be ordered from each supplier, is referred to as an "optimal award schedule."

Were price the buyer's sole concern, s'he would simply select the supplier offering the lowest price per item. The present invention, however, is directed toward complex transactions involving non-price considerations. For example, a supplier's price for an item can be made to depend on the quantity of that item purchased. Or, the supplier may give one price for a bundle of disparate items, in which case it is unclear how to allocate this price among the items. In addition, the invention permits other, less clearly quantifiable factors to be considered. For example, the buyer's purchase decision may turn on the quality of goods or the reputation of the supplier for reliability, or the supplier's solvency. The buyer may also have internally generated policies, or business rules, that further constrain which the choice of which suppliers can be awarded a bid.

Independent claim 1 of the present invention is directed to a computer-implemented method for determining an optimal award schedule for at least partial satisfaction of a requisition. Public buyer constraints are received from a buyer over a computer network, and the buyer also provides an objective function including non-price criteria. The public buyer-constraints, which are representative of the requisition, are then transmitted to a set of prospective suppliers over the computer network. Prospective suppliers (also referred to as "candidate suppliers") choose to submit bids responsive to the public buyer constraints and send those bids across the computer network for analysis by the buyer. The objective function is used to determine an optimal award schedule that includes a list of selected suppliers from the set

Specification at pg. 3, ln. 9–10.

Specification at pg. 3, ln. 14–15.

Specification at pg. 10, ln. 8-13; pg. 26, ln. 1-pg. 28, ln. 10.

of candidate suppliers and information indicative of the manner in which each of the selected suppliers is to satisfy (at least in part) the requisition.⁶

Independent claim 27 is directed toward a computer-readable media having encoded thereon software for determining an optimal award schedule for at least partial satisfaction of a requisition. This claim is substantively similar to claim 1.

GROUNDS FOR REJECTION TO BE REVIEWED ON APPEAL

The issues on appeal are: (1) whether claims 1 and 27 are unpatentable under 35 U.S.C. § 112 for lack of antecedent basis and agreement; (2) whether the formal drawings filed with the Office satisfy 37 C.F.R. § 1.121(d); (3) whether claims 1–15 and 27–41 are anticipated under 35 U.S.C. § 102(b) by U.S. Patent No. 6,260,024 to Shkedy ("Shkedy"); and (4) whether claims 16–26 and 42–52 are unpatentable under 35 U.S.C. §103(a) by Shkedy in view of U.S. Patent No. 6,647,373 to Carlton-Foss").

ARGUMENT

A. Rejection Under 35 U.S.C. § 112

1. Claims 1 and 27

Claims 1 and 27 were said to lack antecedent basis for the elements "subset of suppliers," "selected suppliers," and "selected subset of suppliers." Claims 1 and 27 both recite a "set of suppliers," from which a "subset of suppliers" is subsequently selected. Any "set" will inherently include a number of "subsets," and accordingly this rejection is clear error.

Specification at pg. 3, ln. 15–16.

⁵ Specification at pg. 3, ln. 17–19.

Specification at pg. 3, ln. 19-21; pg. 25, ln. 27-pg. 26, ln. 3.

The claims were also said to lack agreement for use of both "selected suppliers" and
"selected supplier." A selected "subset of suppliers," like any set, may include any number of
suppliers. When one supplier is claimed, the claims use the singular form; when more than one
supplier is claimed, the claims use the plural form. This rejection is also clear error.

B. Rejection Under 37 C.F.R. § 1.121(d)

1. Drawings 6, 8–14, 15A, 15B, 16A, 16B, 17, 19, 20A, 20B, and 21–28

Corrected drawings were requested because "in fig.'s 6, 8-14, 15A, 15B, 16A, 16B, 17, 19, 20A, 20B, and 21-28 the shaded portion of the drawing figure's are not legible. The shading needs to be removed in order to read the text in the drawing figures." Office Action at 3.

Copies of Figures 6, 8–14, 15A, 15B, 16A, 16B, 17, 19, 20A, 20B, and 21–28 were obtained from the formal drawings filed on August 26, 2002, using the Office's PAIR system and are attached to this Brief as Exhibit A. Each of these figures bears the stamp of the Office of Initial Patent Examination, and <u>none</u> of these figures includes either shading or unreadable text. Accordingly, this rejection is clear error.

Another rejection apparently based on the informal drawings initially filed with this application, instead of the formal drawings filed on August 26, 2002, was issued in the Office Action of January 11, 2005, and argued in the Response filed on April 1, 2005.

C. Rejection Under 35 U.S.C. § 102(b) Over U.S. Patent No. 6,260,024

1. Claims 1-15 and 27-41

The burden is on the Examiner to demonstrate that each feature of a claim is met by a reference or valid combination of references. The courts have repeatedly and consistently held

Specification at pg. 8, ln. 7–14.

that "all limitations [of a claim] must be considered ... and it is error to ignore specific limitations in distinguishing over the references." In the present case, the Examiner has failed to consider essential elements of independent claims 1 and 27 in rejecting those claims and the claims that depend therefrom over United States Patent No. 6,260,024 to *Shkedy*.

Specifically, independent claims 1 and 27 both recite, in part: (1) "utilizing, by a programmed computer, the <u>objective function</u> to select a subset of suppliers and determine an <u>optimal award schedule</u> for at least partial satisfaction of said requisition utilizing the selected suppliers," (2) where the "objective function" includes "<u>non-price criteria</u>," and (3) the "optimal award schedule" includes information indicative of the manner in which each of said selected subset of suppliers is to at least partially satisfy said requisition (emphasis added). For the reasons that follow, we respectfully submit that *Shkedy* neither teaches nor suggests the use of non-price criteria in an objective function, or the determination of an optimal award schedule.

In accordance with claims 1 and 27, a prospective buyer specifies constraints that prospective suppliers are invited to satisfy. The buyer's constraints may include traditional price terms, such as a maximum price per item, but also includes non-price terms (e.g., time to satisfaction, quality, quantity, etc.). Prospective suppliers submit bids responsive to the buyer's constraints and the invention determines an optimal award schedule from those bids. In particular, the invention as claimed determines which of the bidding suppliers will optimally satisfy the bid, evaluating each bid against the price and non-price terms specified by the buyer. As explained in the specification, "[t]he optimal combination of suppliers, together with the list of items to be ordered from each supplier, is referred to as an optimal award schedule." The "objective function" is the formulation of the buyer's price and non-price constraints and the

⁸ In re Boe and Duke, 184 USPO 38, 40 (CCPA 1974),

seller's constraints in its bid that is used by an optimization engine to determine the optimal award schedule. 10

Shkedy, by contrast, describes a system for aggregating individual buyers' purchase requirements into a single collective purchase requirement, and providing that collective purchase requirement to sellers willing to bid on the collective purchase requirement. Shkedy teaches a simple "winner-take-all" system, where one seller providing the best bid wins all of the business.

Such a limited, even primitive system is simply not relevant to the present claims.

Indeed, Shkedy, like other references cited during prosecution, typifies the prior art over which the present invention improves. The Shkedy system cannot create an "optimal award schedule" that allows multiple sellers to satisfy a buyer's requisition in an optimal fashion because a single buyer always wins the entire award. There is no notion, in Shkedy, of selecting a subset of suppliers and determining an optimal award schedule for at least partial satisfaction of a requisition utilizing the selected suppliers.

Moreover, while Shkedy allows prospective buyers to specify non-price criteria, such as a quantity, a pool date, and an outside delivery date, ¹³ Shkedy does not appear to teach that a prospective seller may provide bids that do not conform to these non-price criteria, or how to weigh a prospective seller's non-conforming non-price criteria against a bidded price. In other words, Shkedy cannot satisfy the requirements of the present claims that require an "objective function" including "non-price criteria" to create an optimal award schedule that is optimal with respect to both price and non-price criteria. In accordance with Shkedy, non-price requirements

⁹ Specification at pg. 2, ln. 4-6 (emphasis added).

¹⁰ Id. at pg. 25, ln. 27–p. 26, ln. 3.

¹¹ Shkedy at Abstract,

do no more than exclude a non-conforming bidder from consideration. Rather, the best price always wins so long as non-price criteria are not violated. This is flatly inconsistent with the claimed requirements of an optimal award schedule spread among multiple suppliers. It is even less relevant to an optimal award schedule that "includes information indicative of the manner in which each of said selected subset of suppliers is to at least partially satisfy said requisition."

The rejection of independent claims 1 and 27 is solely based on *Shkedy*, and the preceding discussion demonstrates how *Shkedy* fails to satisfy at least two essential elements of these claims. For these reasons, we respectfully submit that the rejection of independent claims 1 and 27 over *Shkedy* is clear error. The remaining claims, which depend therefrom, are therefore allowable as well

- D. <u>Rejection Under 35 U.S.C. § 103(a) Over</u> U.S. Patents Nos. 6,260,024 and 6,647,373
- 1. Claims 16-26 and 42-52

These claims depend from independent claims 1 and 27. The preceding discussion demonstrates that these base claims are patentable. Claims 16–26 and 42–52, which depend from patentable base claims, are therefore allowable as well.

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¹² Id. at col. 3, ln. 55-57; col. 3, ln. 9-11; col. 6, ln. 29-30.

¹³ Shkedy at col. 5, ln. 13-16.

CONCLUSION

For all of the foregoing reasons, we submit that the Examiner's rejections of claims 1–52 were erroneous, and reversal thereof is respectfully requested.

Respectfully submitted,

Date: April 10, 2009 /Robert S. Blasi/

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CLAIMS APPENDIX

- A computer-implemented method for determining an optimal award schedule for at least partial satisfaction of a requisition, said method comprising:
 - receiving from a buyer, over a computer network, public buyer constraints representative of said requisition;
 - receiving from the buyer, over said computer network, a objective function including non-price criteria;
 - transmitting to a set of suppliers, over said computer network, said public buyer constraints:
 - receiving from each supplier, over said computer network, a bid responsive to said public buyer constraints; and
 - utilizing, by a programmed computer, the objective function to select a subset of suppliers and determine an optimal award schedule for at least partial satisfaction of said requisition utilizing the selected suppliers,
 - wherein said optimal award schedule includes information indicative of the manner in which each of said selected subset of suppliers is to at least partially satisfy said requisition.
- The method of claim 1, wherein receiving said public buyer constraints from said buyer over said computer network comprises receiving a list of items to be supplied.
- The method of claim 2, wherein receiving said list of items comprises receiving a list in which at least one item in said list is a logical item that includes a list of items.

4. The method of claim 1, wherein receiving said public buyer constraints from said buyer over said network comprises receiving a constraint selected from the group consisting of: a maximum price said buyer is willing to pay for at least partial satisfaction of said requisition; and

a non-price constraint required by said buyer for at least partial satisfaction of said requisition.

5. The method of claim 4, wherein said non-price constraint is selected from the group

consisting of: a desired time for at least partial satisfaction of said requisition; a desired quality

for at least partial satisfaction of said requisition; and a desired quantity for at least partial

satisfaction of said requisition.

6. The method of claim 1, wherein receiving said bid from each supplier over said computer

network comprises receiving a bid including a proposed price for at least partial satisfaction of

said requisition.

7. The method of claim 1, wherein receiving said bid from each supplier over said computer

network comprises receiving a bid including a proposed price having a volume discount

dependent on an extent to which said requisition is to be at least partially satisfied.

8. The method of claim 1, wherein receiving said bid from each supplier over said computer

network comprises receiving a bid including a fixed charge independent of an extent to which

said requisition is to be at least partially satisfied.

The method of claim 1, wherein receiving said bid from each supplier over said computer

network comprises receiving a bundled bid offering to at least partially satisfy, for a bundled

price, a requisition for a selection of items from said list of items.

10. The method of claim 1, further comprising facilitating an exchange of messages between

a buyer and a supplier over said computer network.

- The method of claim 10, further comprising facilitating the multi-casting of a message sent by said buyer to all suppliers over said computer network.
- 12. The method of claim 1, wherein determining an optimal award schedule comprises considering a performance attribute for a supplier.
- 13. The method of claim 12, wherein considering a performance attribute comprises selecting an attribute from the group consisting of: the supplier's reputation for prompt delivery, the supplier's reputation for quality, geographical location of the supplier, the supplier's reputation for support and maintenance, and a user-defined attribute.
- 14. The method of claim 12, wherein considering a performance attribute comprises considering a weight supplied by said buyer, said weight being indicative of an extent to which said performance attribute is to be considered in determining said optimal award schedule.
- 15. The method of claim 14, wherein considering a performance attribute comprises determining a price penalty on the basis of said weight and incorporating said price penalty in a bid received from said supplier.
- 16. The method of claim 1, wherein determining an optimal award schedule comprises applying a private buyer constraint.
- 17. The method of claim 16, wherein applying the private buyer constraint comprises applying a business rule.
- 18. The method of claim 17, wherein applying a business rule comprises selecting a business rule from the group consisting of: a business rule placing a limit on the number of selected suppliers, a business rule specifying properties of said selected suppliers, a business rule placing a limit on the number of items provided by a selected suppliers, a business rule placing a limit on

the number of items provided by a cluster of selected suppliers, and a business rule placing a limit on an extent to which a selected supplier at least partially satisfies said requisition.

- The method of claim 18, wherein placing a limit comprises selecting a limit from the group consisting of an upper bound and a lower bound.
- 20. The method of claim 18, wherein the extent to which a selected supplier satisfies said requisition is measured by a monetary value of said extent.
- The method of claim 16, wherein applying the private buyer constraint comprises rejecting any bundled bid.
- 22. The method of claim 16, wherein applying the private buyer constraint comprises manually selecting a supplier for inclusion in said list of selected suppliers.
- 23. The method of claim 22, wherein applying the private buyer constraint further comprises manually specifying an extent to which said manually selected supplier is to at least partially satisfy said requisition.
- 24. The method of claim 1, further comprising generating by a computer a code indicative of at least one reason for rejecting a losing bid.
- 25. The method of claim 24, wherein generating said code comprises incorporating into said code information indicative of whether said losing bid was rejected on the basis of a reason selected from a group consisting of an excessive price and an inadequate performance attribute.
- 26. The method of claim 1, further comprising selecting said requisition from the group consisting of: a purchase of an item, a purchase of a group of items, a performance of a service, and a performance of a group of services.

- 27. Computer-readable media having encoded thereon software for determining an optimal award schedule for at least partial satisfaction of a requisition, said software comprising:
 - instructions for receiving from a buyer, over a computer network, public buyer constraints representative of said requisition;
 - instructions for receiving from the buyer, over said computer network, a objective function including non-price criteria;
 - instructions for transmitting to a set of suppliers, over said computer network, said public buyer constraints;
 - instructions for receiving from each supplier, over said computer network, a bid responsive to said public buyer constraints;
 - instructions for utilizing the objective function to select a subset of suppliers and determine an optimal award schedule for at least partial satisfaction of said requisition utilizing the selected suppliers,
 - wherein said optimal award schedule includes information indicative of the manner in which each of said selected suppliers is to at least partially satisfy said requisition.
- 28. The computer-readable media of claim 27, wherein said instructions for receiving said public buyer constraints from said buyer over said computer network comprise instructions for receiving a list of items to be supplied.
- 29. The computer-readable media of claim 28, wherein said instructions for receiving said list of items comprise instructions for receiving a list in which at least one item in said list is a logical item that includes a list of items.
- 30. The computer-readable media of claim 27, wherein said instructions for receiving said public buyer constraints from said buyer over said network comprise instructions for receiving a

constraint selected from the group consisting of: a maximum price said buyer is willing to pay for at least partial satisfaction of said requisition; and a non-price constraint required by said

buyer for at least partial satisfaction of said requisition.

31. The computer-readable media of claim 30, wherein said non-price constraint is selected from the group consisting of: a desired time for at least partial satisfaction of said requisition; a desired quality for at least partial satisfaction of said requisition; and a desired quantity for at

least partial satisfaction of said requisition.

32. The computer-readable media of claim 27, wherein said instructions for receiving said bid from each supplier over said computer network comprise instructions for receiving a bid

including a proposed price for at least partial satisfaction of said requisition.

33. The computer-readable media of claim 27, wherein said instructions for receiving said bid from each supplier over said computer network comprise instructions for receiving a bid including a proposed price having a volume discount dependent on an extent to which said requisition is to be at least partially satisfied.

requisition is to be at least partially satisfied.

34. The computer-readable media of claim 27, wherein said instructions for receiving said bid from each supplier over said computer network comprise instructions for receiving a bid including a fixed charge independent of an extent to which said requisition is to be at least

partially satisfied.

35. The computer-readable media of claim 28, wherein said instructions for receiving said bid from each supplier over said computer network comprise instructions for receiving a bundled bid offering to at least partially satisfy, for a bundled price, a requisition for a selection of items

from said list of items

36. The computer-readable media of claim 27, wherein said software further comprises instructions for facilitating an exchange of messages between a buver and a supplier over said

computer network.

37. The computer-readable media of claim 36, wherein said software further comprises

instructions for facilitating the multi-casting of a message sent by said buyer to all suppliers over

said computer network.

38. The computer-readable media of claim 27, wherein said instructions for determining an

optimal award schedule comprise instructions for considering a performance attribute for a

supplier.

39. The computer-readable media of claim 38, wherein said instructions for considering a

performance attribute comprise instructions for selecting an attribute from the group consisting

of: the supplier's reputation for prompt delivery, the supplier's reputation for quality,

geographical location of the supplier, the supplier's reputation for support and maintenance, and

a user-defined attribute.

40. The computer-readable media of claim 38, wherein said instructions for considering a

performance attribute comprise instructions for considering a weight supplied by said buyer, said

weight being indicative of an extent to which said performance attribute is to be considered in

determining said optimal award schedule.

41. The computer-readable media of claim 40, wherein said instructions for considering a

performance attribute comprise instructions for determining a price penalty on the basis of said

weight and incorporating said price penalty in a bid received from said supplier.

- 42. The computer-readable media of claim 27, wherein said instructions for determining an optimal award schedule comprise instructions for applying a private buyer constraint.
- 43. The computer-readable media of claim 42, wherein said instructions for applying private buyer constraint comprise instructions for applying a business rule.
- 44. The computer-readable media of claim 43, wherein said instructions for applying a business rule comprise instructions for selecting a business rule from the group consisting of: a business rule placing a limit on the number of selected suppliers, a business rule specifying properties of said selected suppliers, a business rule placing a limit on the number of items provided by a selected suppliers, a business rule placing a limit on the number of items provided by a cluster of selected suppliers, and a business rule placing a limit on an extent to which a selected supplier at least partially satisfies said requisition.
- 45. The computer-readable media of claim 44, wherein said instructions for placing a limit comprise instructions for selecting a limit from the group consisting of an upper bound and a lower bound.
- 46. The computer-readable media of claim 44, further comprising instructions for measuring the extent to which a selected supplier satisfies said requisition by measured by a monetary value of said extent.
- 47. The computer-readable media of claim 42, wherein said instructions for applying the private buyer constraint comprise instructions for rejecting any bundled bid.
- 48. The computer-readable media of claim 42, wherein said instructions for applying the private buyer constraint comprise instructions for enabling manual selection of a supplier for inclusion in said list of selected suppliers.

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49. The computer-readable media of claim 48, wherein said instructions for applying the

private buyer constraint further comprise instructions for enabling manual specification of an

extent to which said manually selected supplier is to at least partially satisfy said requisition.

50. The computer-readable media of claim 27, wherein said software further comprises

instructions for generating by a computer a code indicative of at least one reason for rejecting a

losing bid.

51. The computer-readable media of claim 50, wherein said instructions for generating said

code comprise instructions for incorporating into said code information indicative of whether

said losing bid was rejected on the basis of a reason selected from a group consisting of an

excessive price and an inadequate performance attribute.

52. The computer-readable media of claim 27, wherein said software further comprises

instructions for selecting said requisition from the group consisting of: a purchase of an item, a

purchase of a group of items, a performance of a service, and a performance of a group of

services.

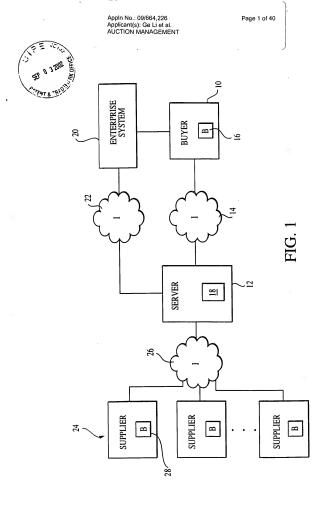
53. Cancelled.

EVIDENCE APPENDIX

There has been no evidence submitted under 37 C.F.R. §§ 1.130-32 in this case.

RELATED PROCEEDINGS APPENDIX

There have been no proceedings related to this case.



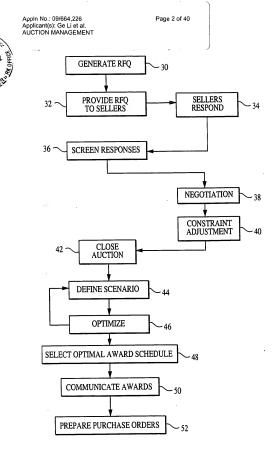
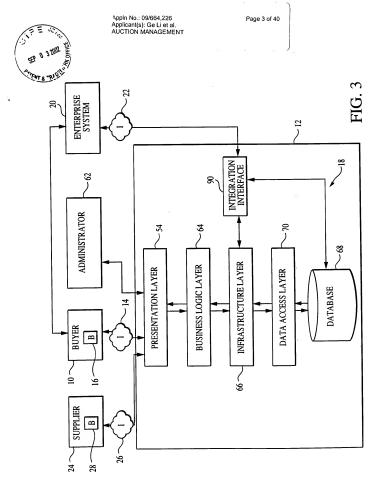
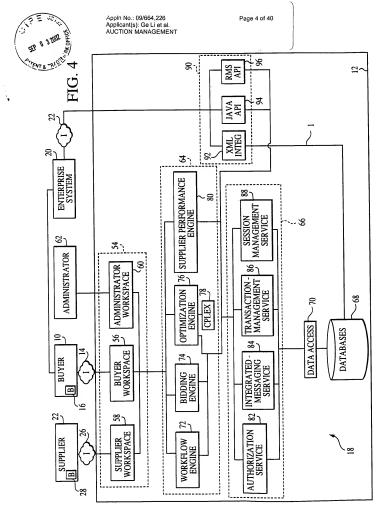


FIG. 2







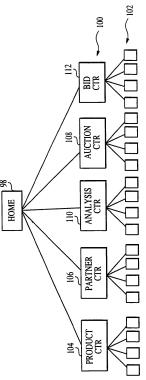


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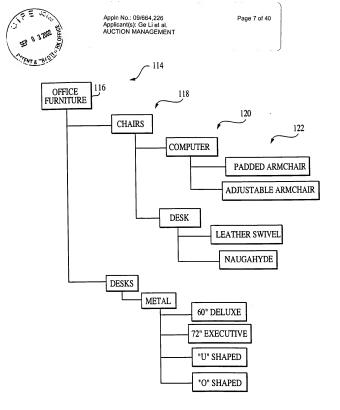


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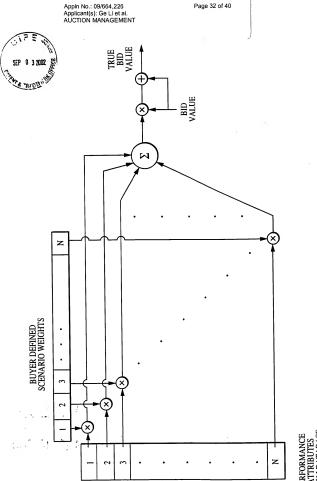
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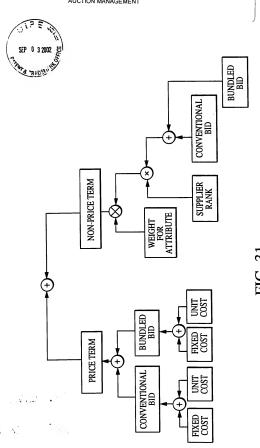


PERFORMANCE ATTRIBUTES FROM DATABASE



$$\sum_{s \in S} \left\{ \sum_{b(s) \in B(s)} \left[f^{b(s)} \chi^{b(s)} + C_i^{b(s)} \chi_i^{b(s)} \right] + \sum_{d(s) \in D(s)} f^{d(s)} \sum_{i \in d(s)} Z^{d(s)} + C_i^{d(s)} Z_i^{d(s)} \right] \right\} +$$

$$\sum_{k \in K} \sum_{i \in I} W_{k,i} \left\{ \sum_{s \in S} \left(\frac{100 - r_{kj}}{100} \right) \left[\sum_{b(s) \in B(s)} C_k^{b(s)} + \sum_{d(s) \in D(s)} C_d^{d(s)} Z_l^{d(s)} \right] \right\}$$



$$\sum_{s \in S} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} y_i^{d(s)} \right) \le Q_i^u \qquad \forall i \in I$$
 (1)

$$\sum_{s \in S} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) \ge Q_i^J \qquad \forall i \in I$$
 (2)

$$\sum_{i \in g} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) - Y_g^s M_g \le 0 \qquad \forall s \in S \qquad (3)$$

$$\sum_{i \in g} \left(\sum_{b(s) \in B(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} z_i^{d(s)} \right) - Y_g^{s} \ge 0 \qquad \forall s \in S \\ \forall g \in G$$
 (4)

$$\sum_{s \in T} Y_{g}^{s} \leq \operatorname{Max} \operatorname{Ng}^{t} \qquad \forall g \in G, \quad \forall t \in T$$
 (5)

$$\sum_{s \in T} Y_g^s \ge \min Ng^t \qquad \forall g \in G, \quad \forall s \in T$$
 (6)

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$$\left\langle b(s)eB(s) - k(s)eD(s) \right\rangle \leq \operatorname{Max} Q_g^{I} \quad \operatorname{VgeG}, \operatorname{V}_{I}eT$$

$$\left\langle b(s)eB(s) - d(s)eD(s) \right\rangle \leq \operatorname{Min} Q_g^{I} \quad \operatorname{VgeG}, \operatorname{V}_{I}eT$$

$$\left\langle \sum_{k,l} x_k^{I}b(s) + \sum_{k,l} x_k^{I}d(s) \right\rangle \geq \operatorname{Min} Q_g^{I} \quad \operatorname{VgeG}, \operatorname{V}_{I}eT$$

$$\sum_{S \in I} \sum_{i \in g} \left\langle \sum_{b(S) \in B(s)} z_i^{b(s)} + \sum_{d} c_i^{d(s)} z_i^{d(s)} \right\rangle \leq \operatorname{Max} V_g^I \quad \mathsf{VgeG}, \mathsf{VreT}$$

$$\sum_{s \in I} \sum_{i \in g} \left(\sum_{b(s) \in B(s)} c_i^{b(s)} x_i^{b(s)} + \sum_{d(s) \in D(s)} c_i^{d(s)} z_i^{d(s)} \right) \ge \text{Min } V_g^{\text{t}} \text{ VgeG, VreT}$$

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FIG. 33



(11)
$$Z_i^{d(s)} - u_i^{d(s)} Z^{d(s)} \le 0 \qquad \forall i \in I, \forall s \in S, \forall b(s) \in B(s)$$

$$(12) Z_i^{d(s)} - l_i^{d(s)} Z^{d(s)} \ge 0 \forall i \in I, \forall s \in S, \forall b(s) \in B(s)$$

(13)
$$X_t^{h(s)} - X^{h(s)} \cup I_t^{h(s)} \le 0 \qquad \forall s \in S. \forall h(s) \in B(s)$$

(14)
$$X_i^{b(s)} - X^{b(s)} L_i^{b(s)} \ge 0 \qquad \forall s \in S, \forall b(s) \in B(s)$$

(15)
$$0 \le X_i^{b(s)} \le U_i^{b(s)} \qquad \forall s \in S, \forall b(s) \in B(s)$$

$$(16) 0 \le Z_t^{d(s)} \forall d(s) \in D(s)$$

(17)
$$X^{b(s)} = \begin{cases} 0 & \forall b(s) \in B(s) \end{cases}$$

(18)
$$Y_g^s = \begin{cases} 0 & \forall g \in G, \forall s \in S \end{cases}$$

$$Z_g^s = \begin{cases} 0 & \forall g \in G, \forall s \in S \end{cases}$$

FIG. 34



```
if O < O^* then

indicator = C

else if p \ge p^*

if [O - p \ge O^*]

indicator = F

else

indicator = P

else

indicator = P
```

if $p > p^*$ then indicator = Pelse if $O > O^*$ then indicator = F



```
 \begin{aligned} &\text{if } (O < O^*) \\ &\text{indicator} = C; \\ &\text{else if } (p \geq \text{ALL}(p^i)) \\ &\text{if } ((O - p) \geq \text{ALL}(O^i)) \\ &\text{indicator} = F; \\ &\text{else} \\ &\text{indicator} = P; \\ &\text{else} \\ &\text{indicator} = F \end{aligned}
```



```
if (0 < 0^*)
   indicator = C:
else if (O > ALL(O^l))
    if (p < p^*)
       indicator = F;
    else if ((O-p) \ge ALL(O^i))
       indicator = F;
    else if (p > ALL(p^i))
       if (R > ALL(R^i))
          indicator = PF;
       else
          indicator = P;
     élse
       indicator = F;
}
else
     if (p < p^*)
       indicator = FC;
     else if (R < R^*)
       indicator = PC:
     else
       indicator = PFC;
```